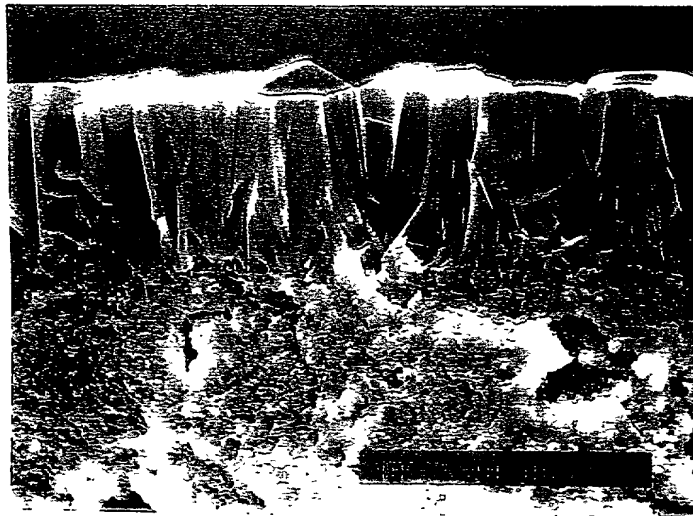


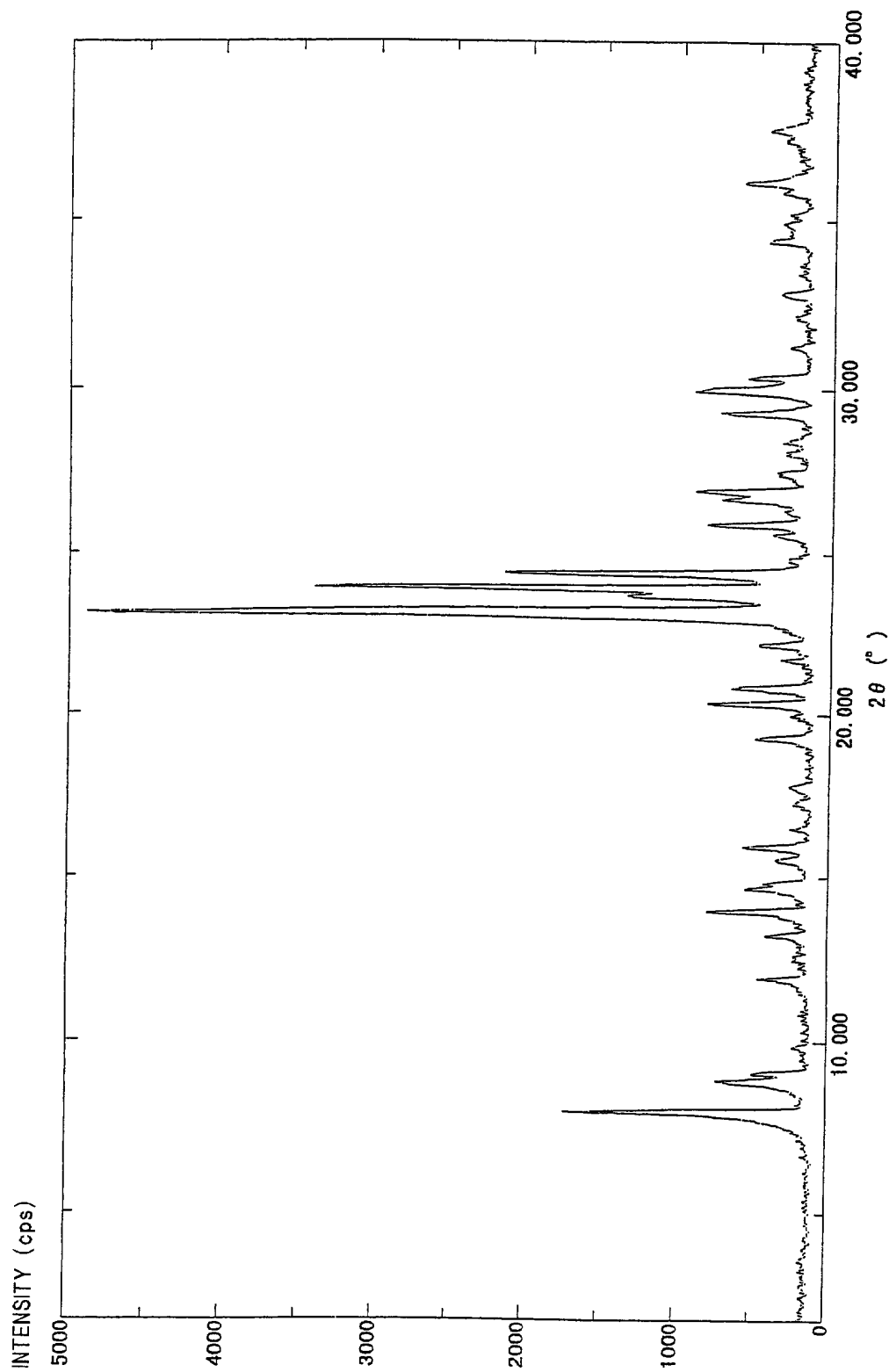
1/24

FIG. 1



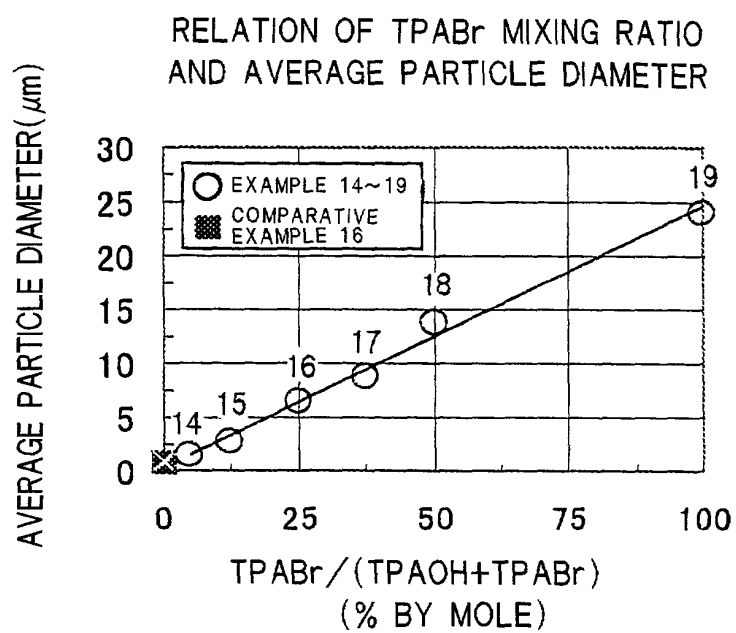
2/24

FIG. 2



3/24

FIG. 3



4/24

FIG. 4



—
10 μ m

FIG. 5



—
10 μ m

5/24

FIG. 6



—
10 μ m

FIG. 7



—
10 μ m

6/24

FIG. 8



—
10 μ m

7/24

FIG. 9

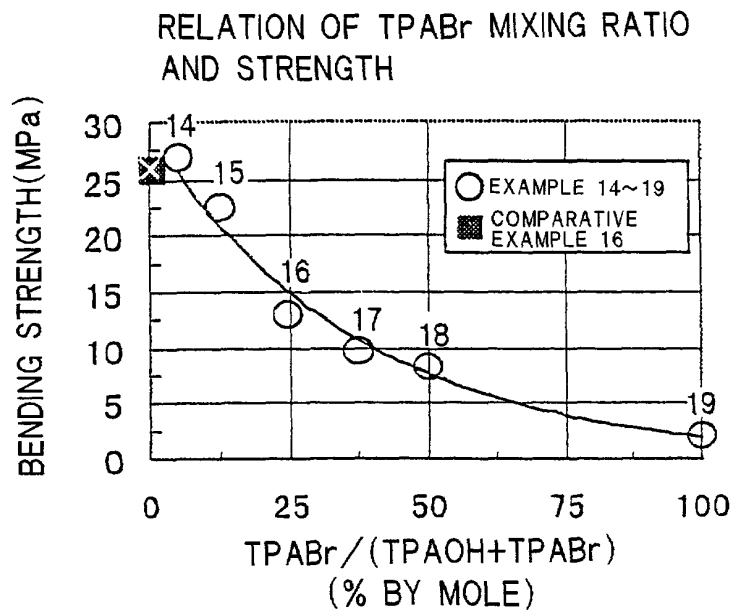
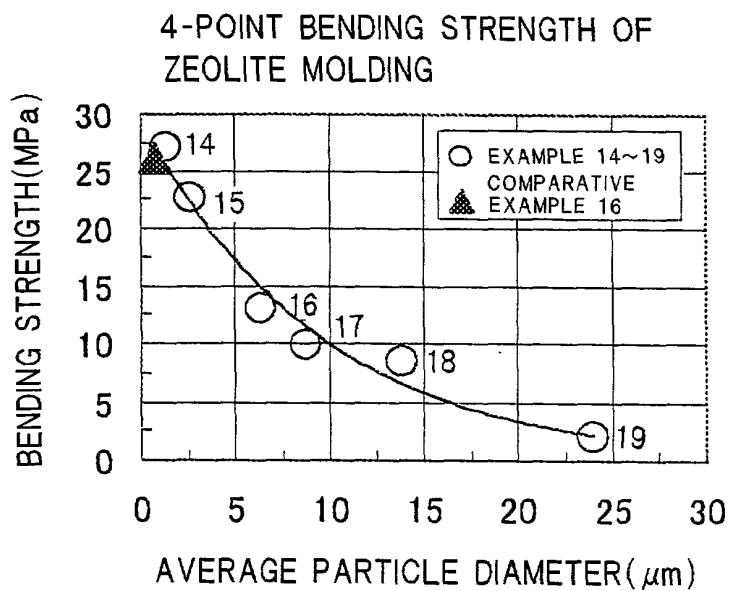
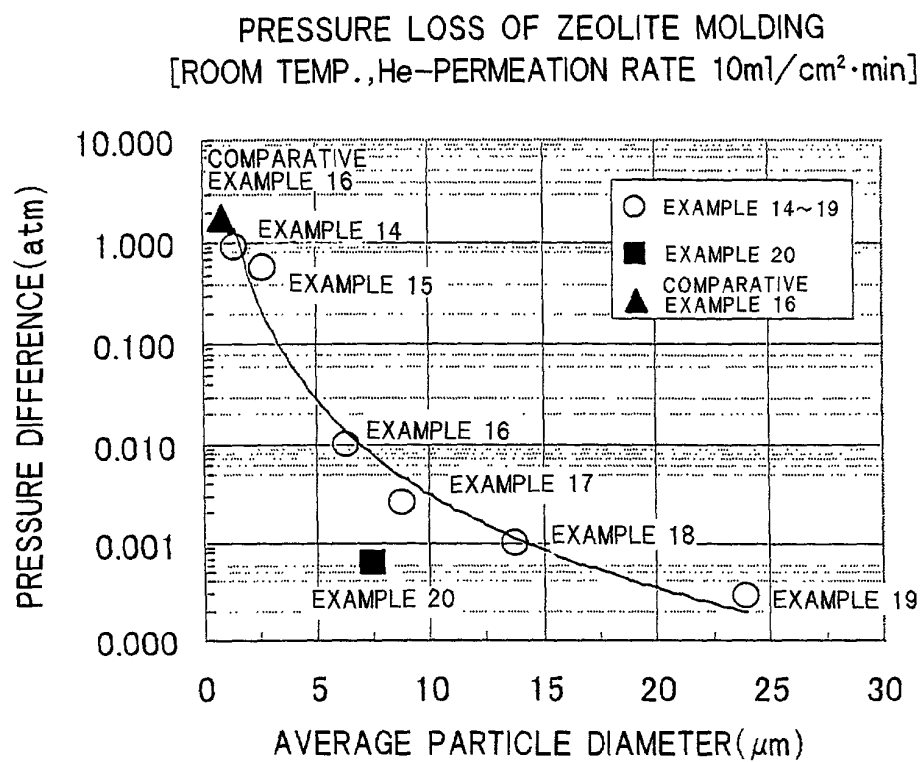


FIG. 10



8/24

FIG. 11



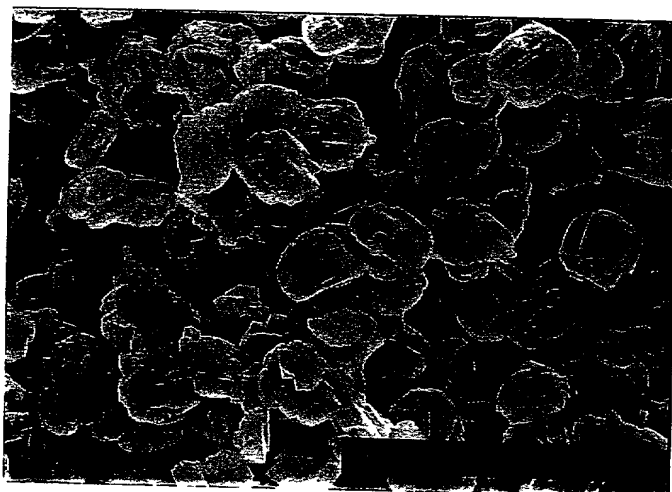
9/24

FIG. 12



—
10 μ m

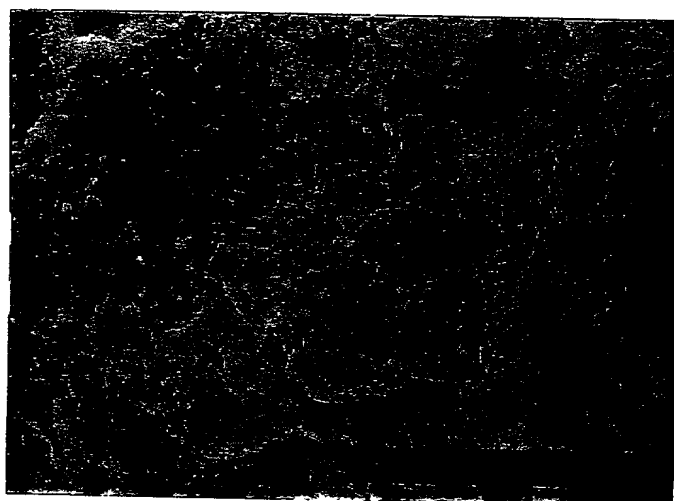
FIG. 13



—
10 μ m

10/24

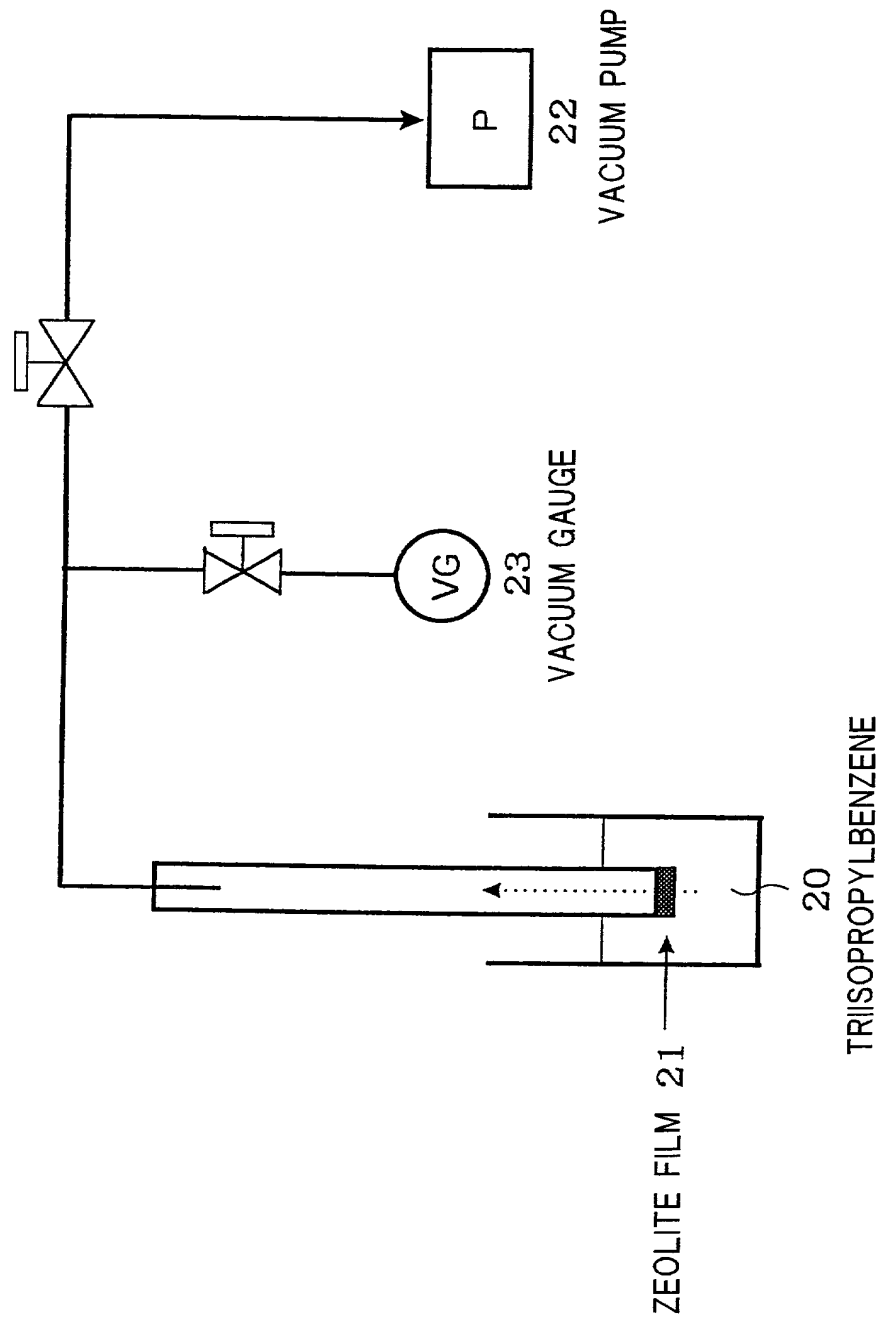
FIG. 14



—
10 μ m

11/24

FIG. 15



12/24

FIG.16

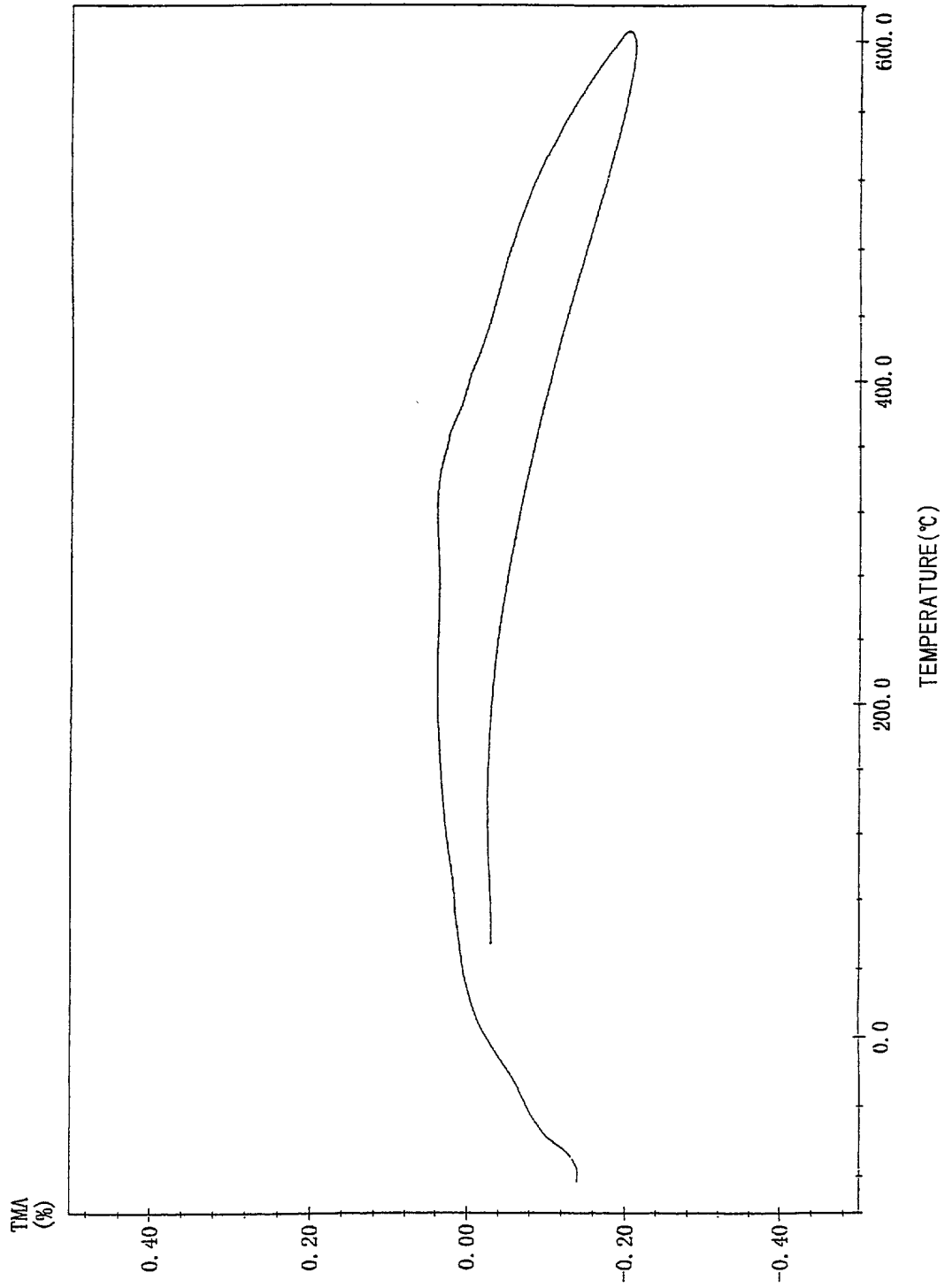
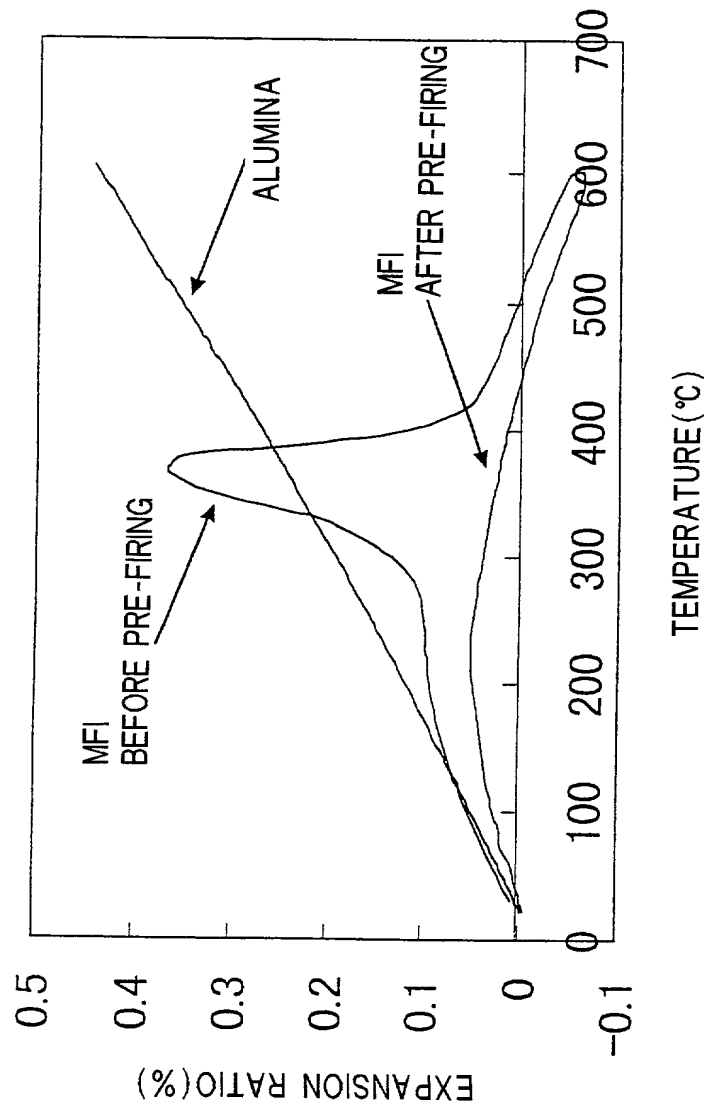


FIG.17

THERMAL EXPANSION COEFFICIENT OF ALUMINA AND MFI ZEOLITE



14/24

FIG. 18

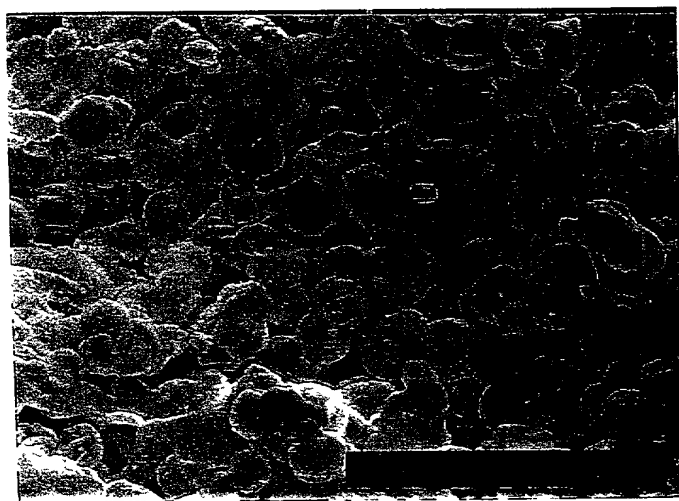
100 μ m

FIG. 19

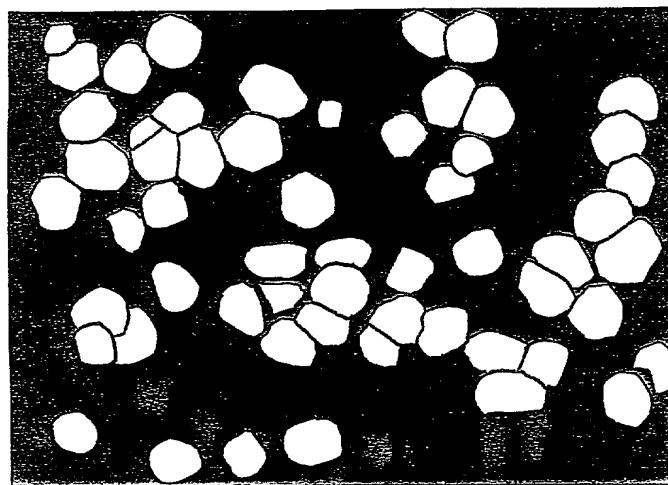
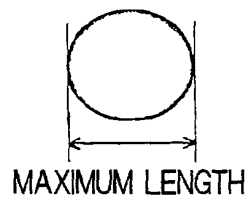
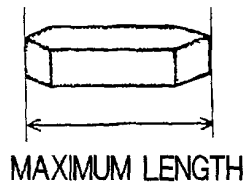
100 μ m

FIG. 20(a)



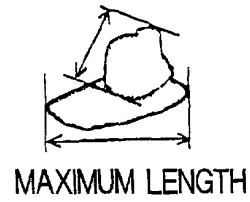
IN THE CASE OF
SPHERICAL PARTICLE

FIG. 20(b)



IN THE CASE OF
PLATE-LIKE PARTICLE

FIG. 20(c)



IN THE CASE OF
IRREGULAR-SHAPE PARTICLE

FIG. 21

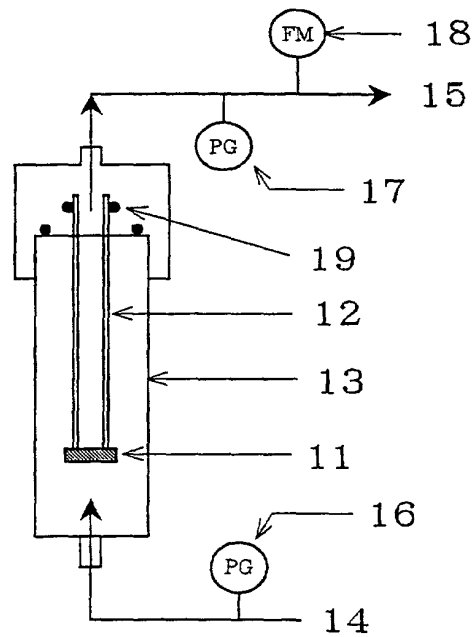


FIG. 22

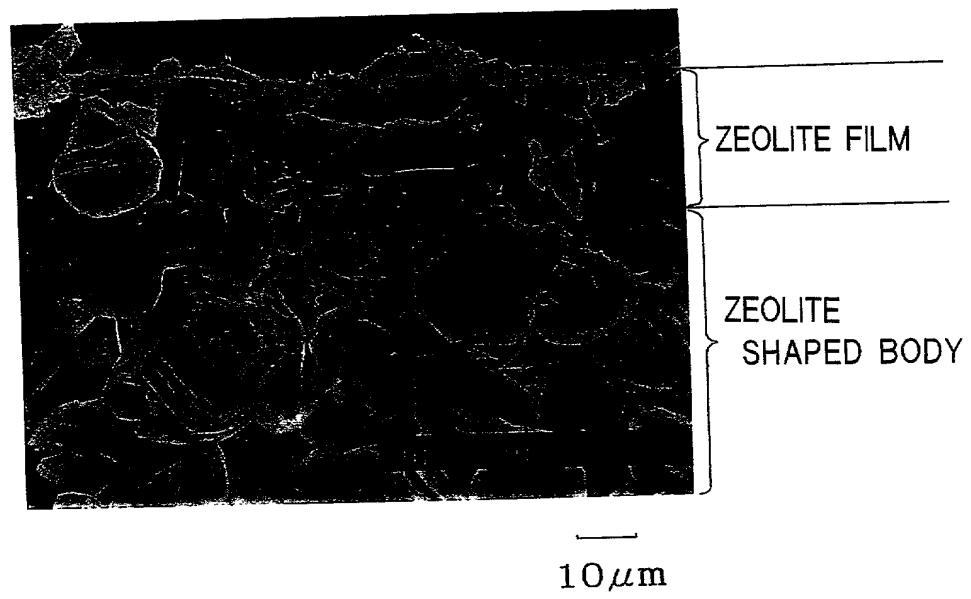
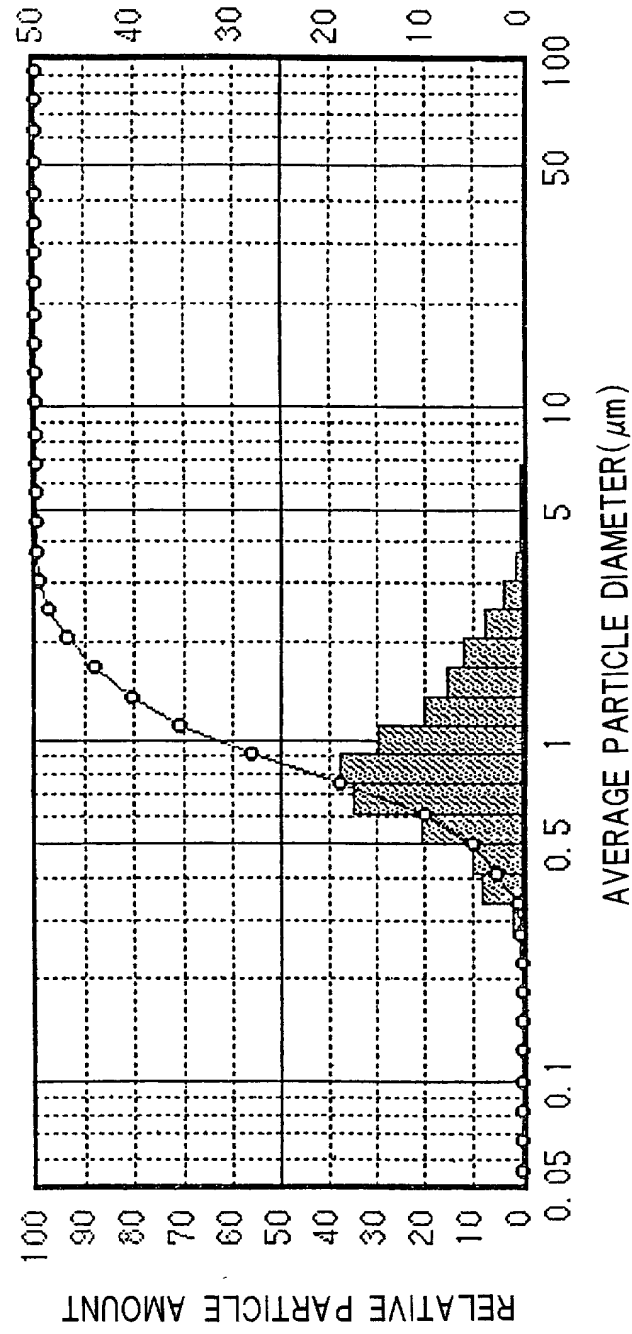
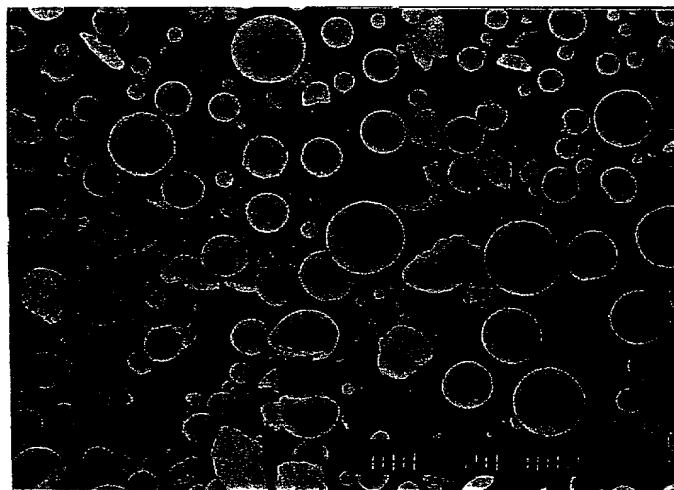


FIG. 23



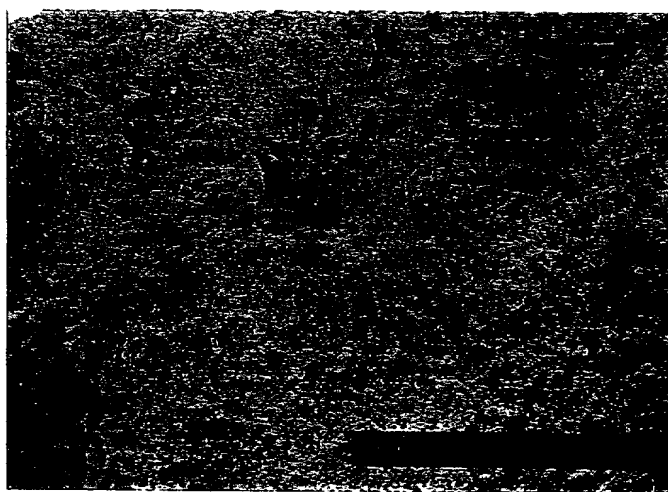
18/24

FIG. 24



100 μ m

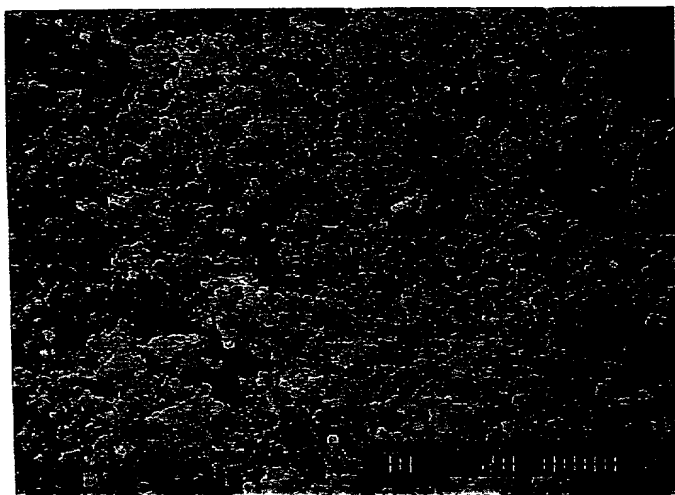
FIG. 25



100 μ m

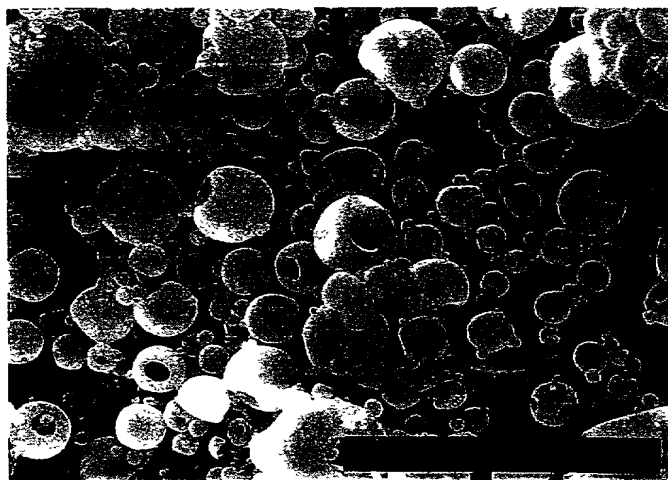
19/24

FIG. 26



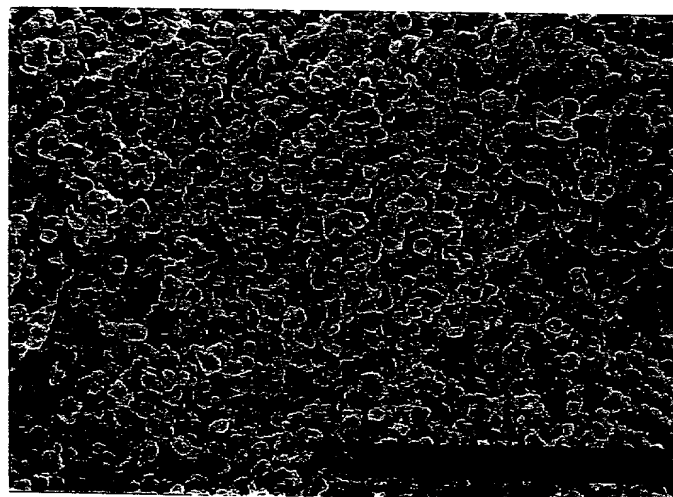
10 μ m

FIG. 27



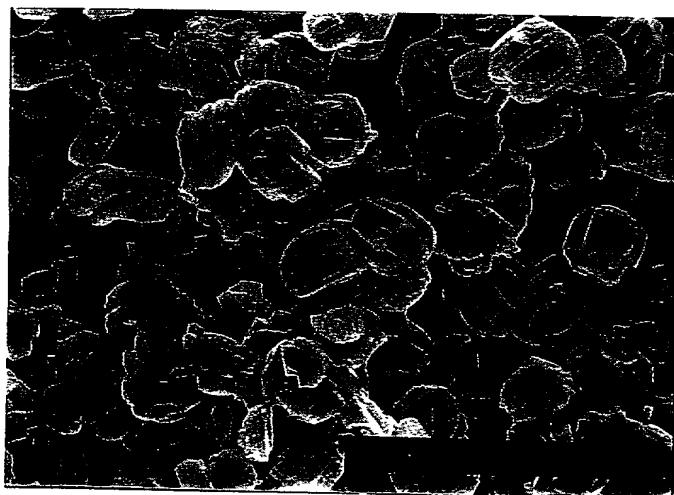
10 μ m

FIG. 28



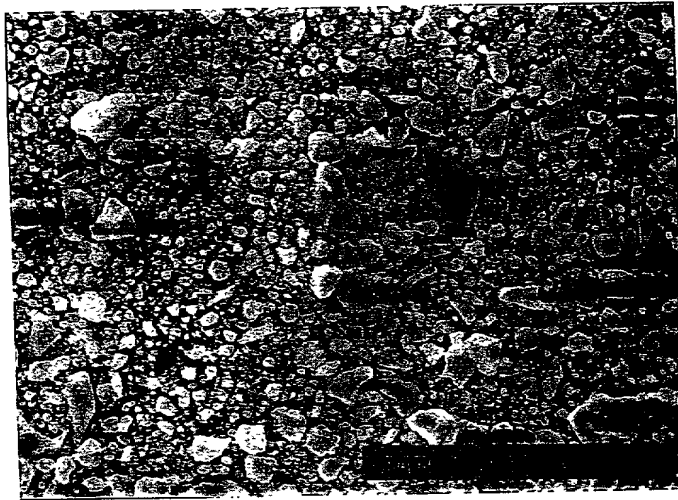
100 μm

FIG. 29



10 μm

FIG. 30



100 μm

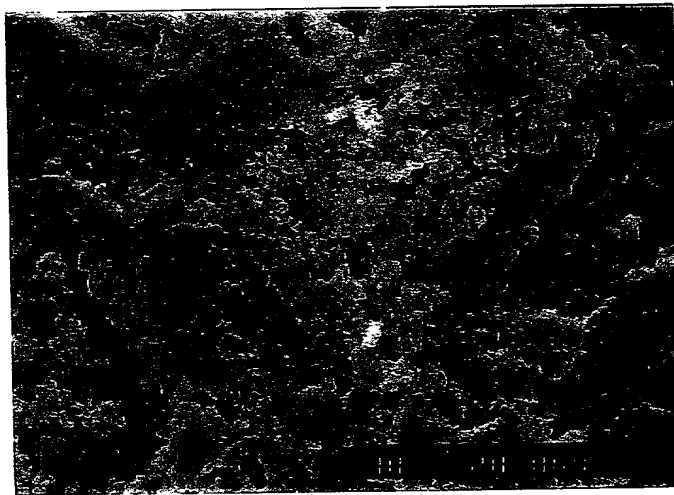
FIG. 31



100 μm

22/24

FIG.32



—
10 μ m

FIG. 33

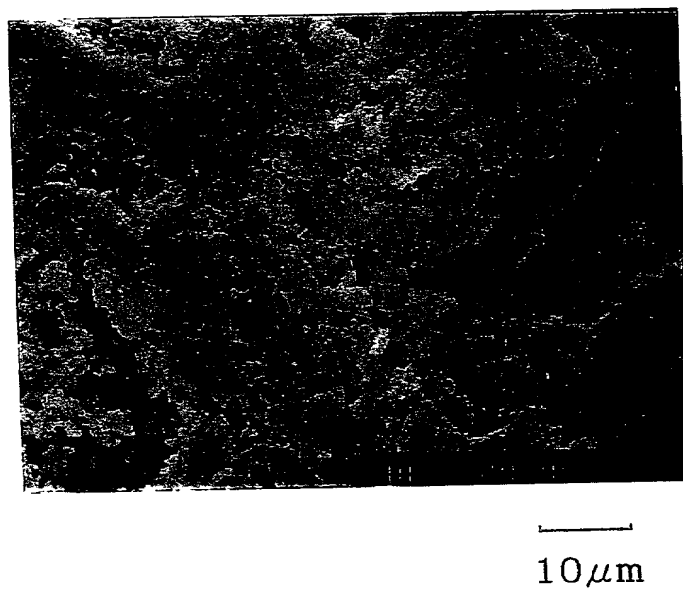


FIG. 34

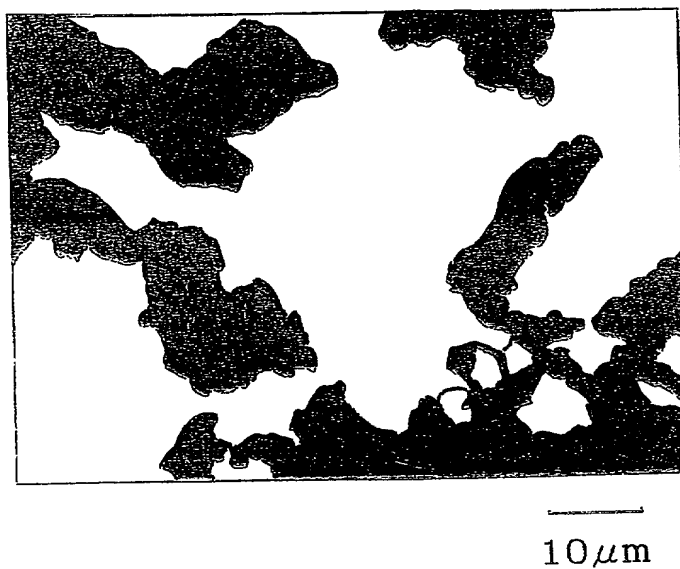


FIG. 35

